Figure 1(a)

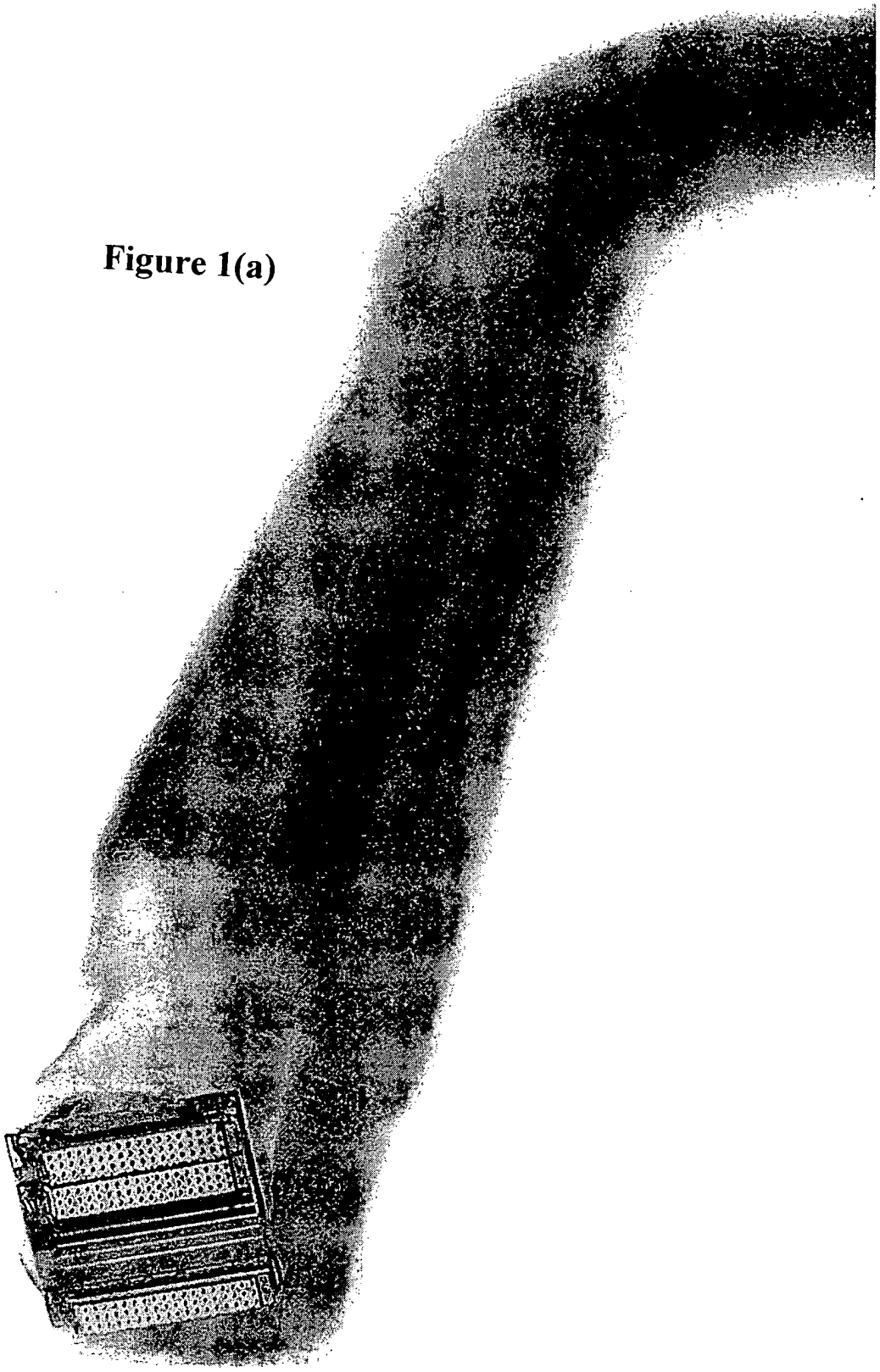


Figure 1(b)

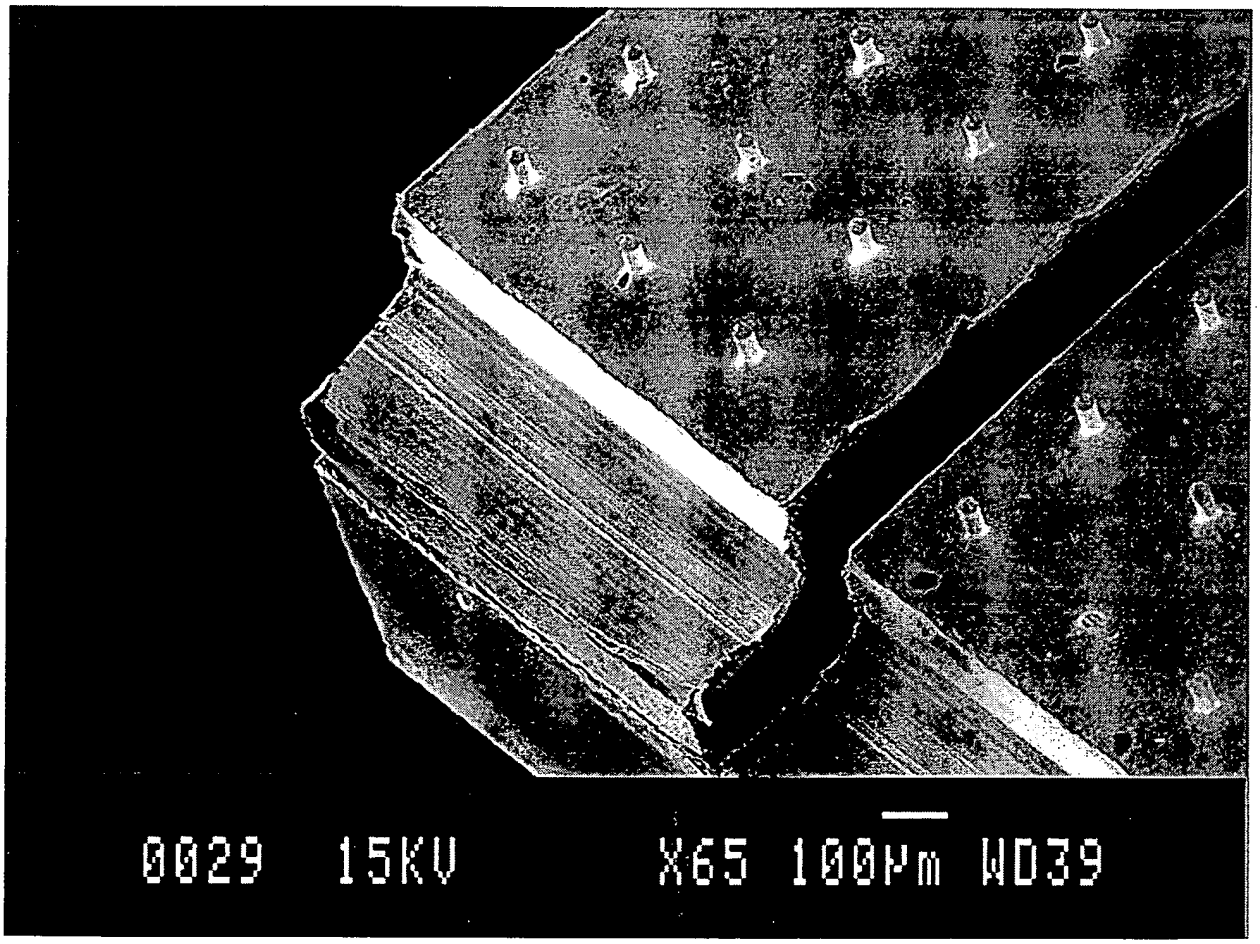
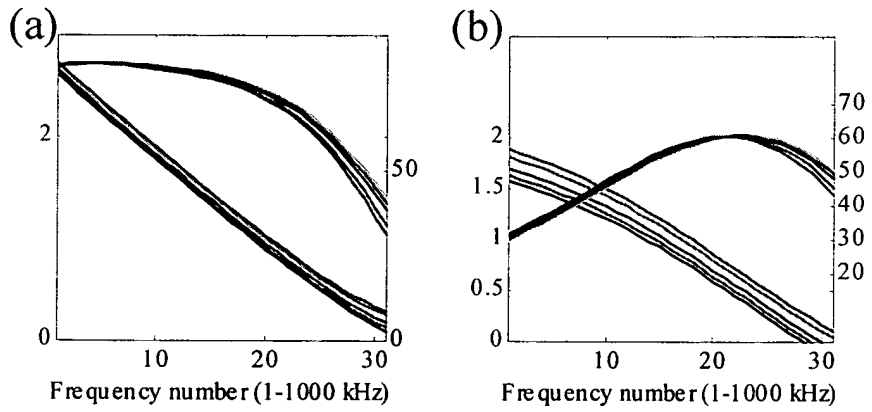


Figure 2


(a)
2
0
50
0
10
20
30
Frequency number (1-1000 kHz)
(b)
2
1.5
1
0.5
0
70
60
50
40
30
20
10
20
30
Frequency number (1-1000 kHz)

5

Figure 3

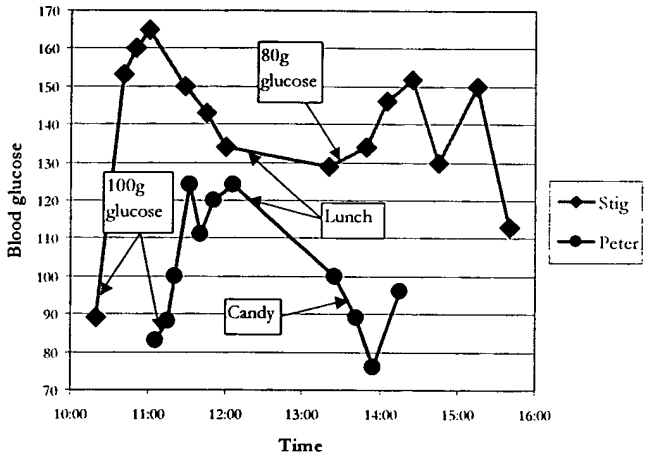


Figure 4

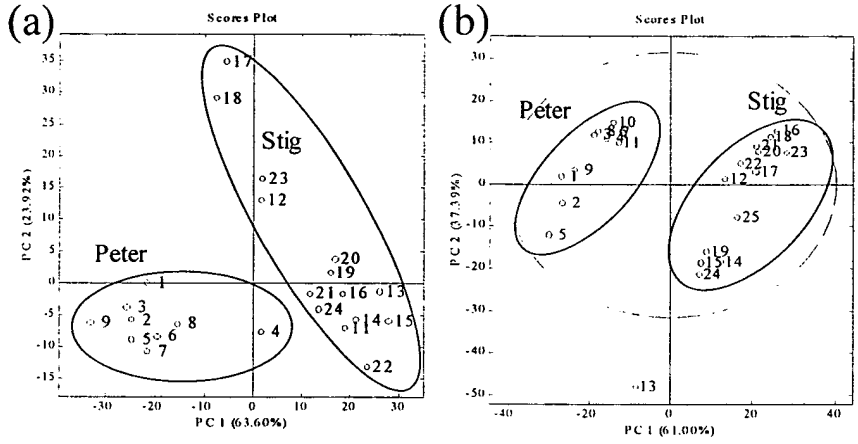


Figure 5

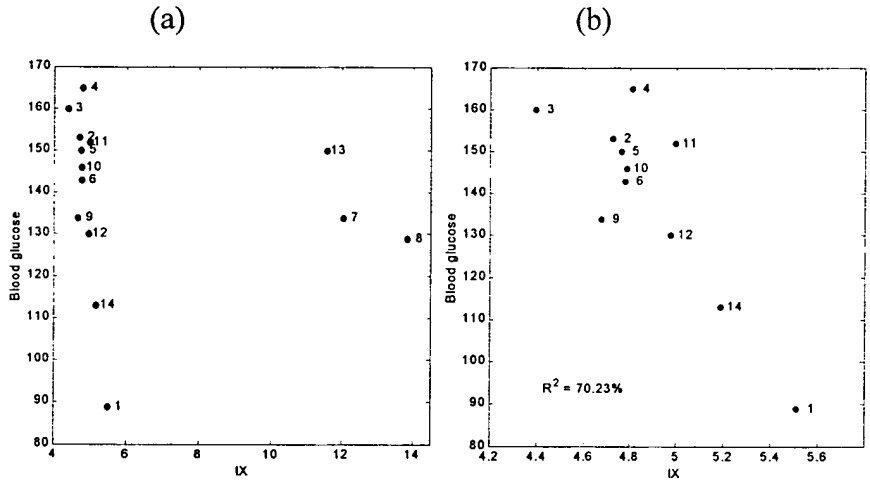


Figure 6

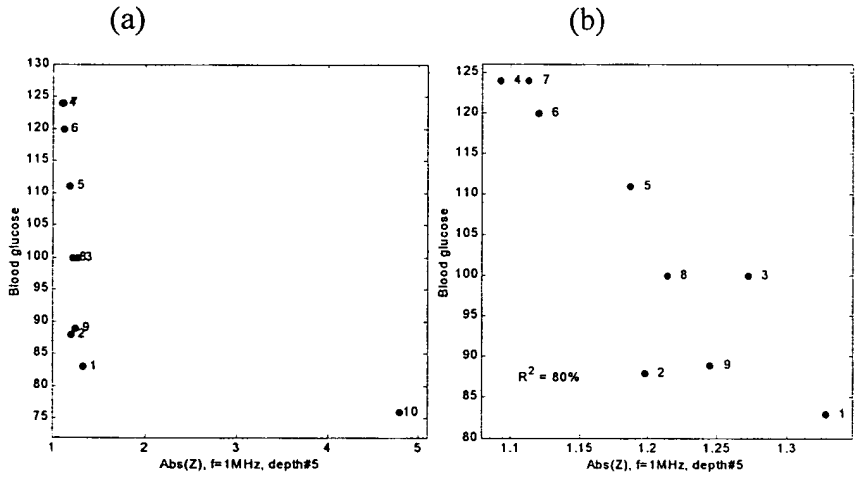


Figure 7

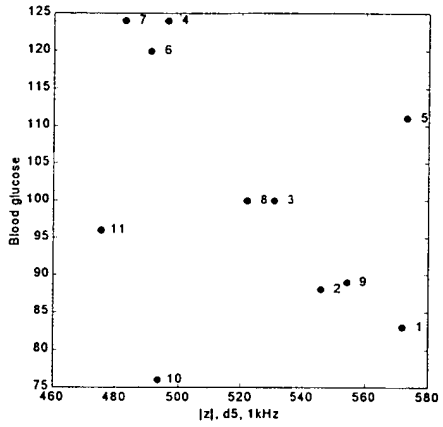

Blood glucose
|z|, d5, 1kHz
125
120
115
110
105
100
95
90
85
80
75
460
480
500
520
540
560
580
7
4
6
5
8
3
11
2
9
1
10

Figure 8(a)

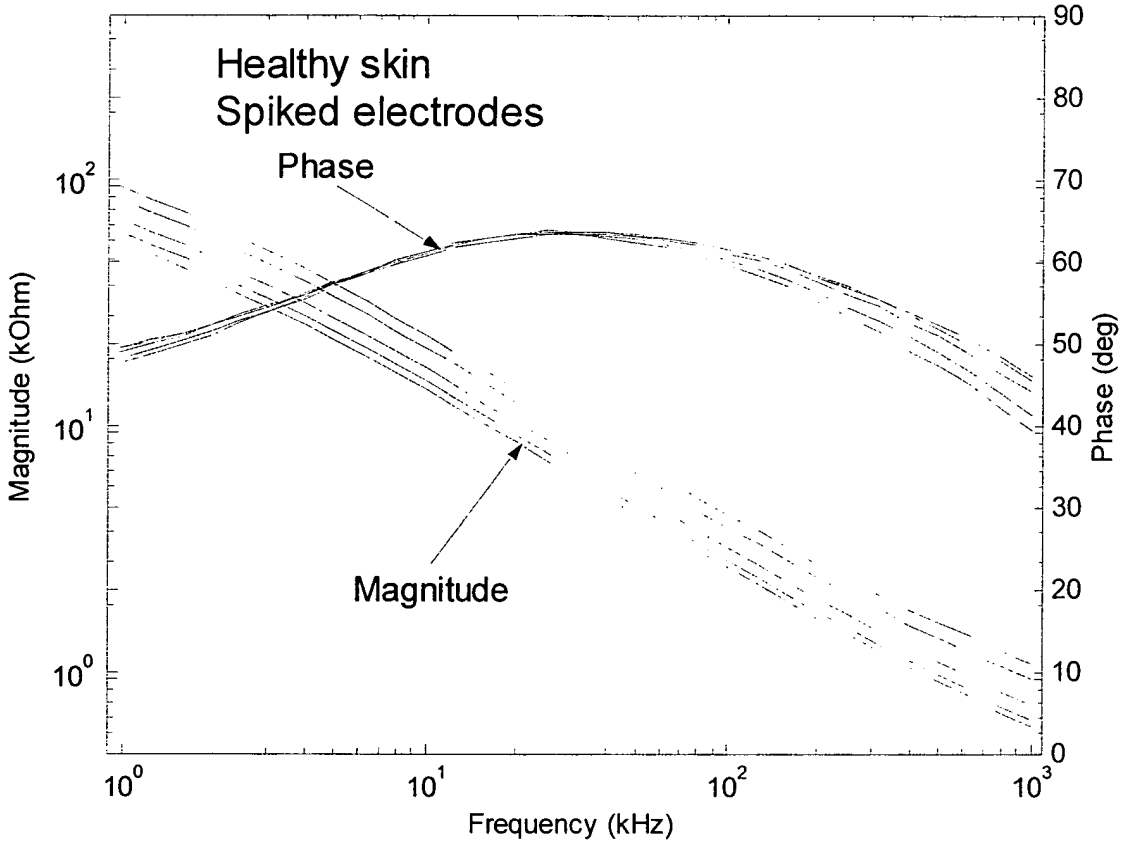

Healthy skin
Spiked electrodes
Phase
Magnitude
Magnitude (kOhm)
Phase (deg)
Frequency (kHz)
10^0
10^1
10^2
10^3
0
10
20
30
40
50
60
70
80
90

Figure 8(b)

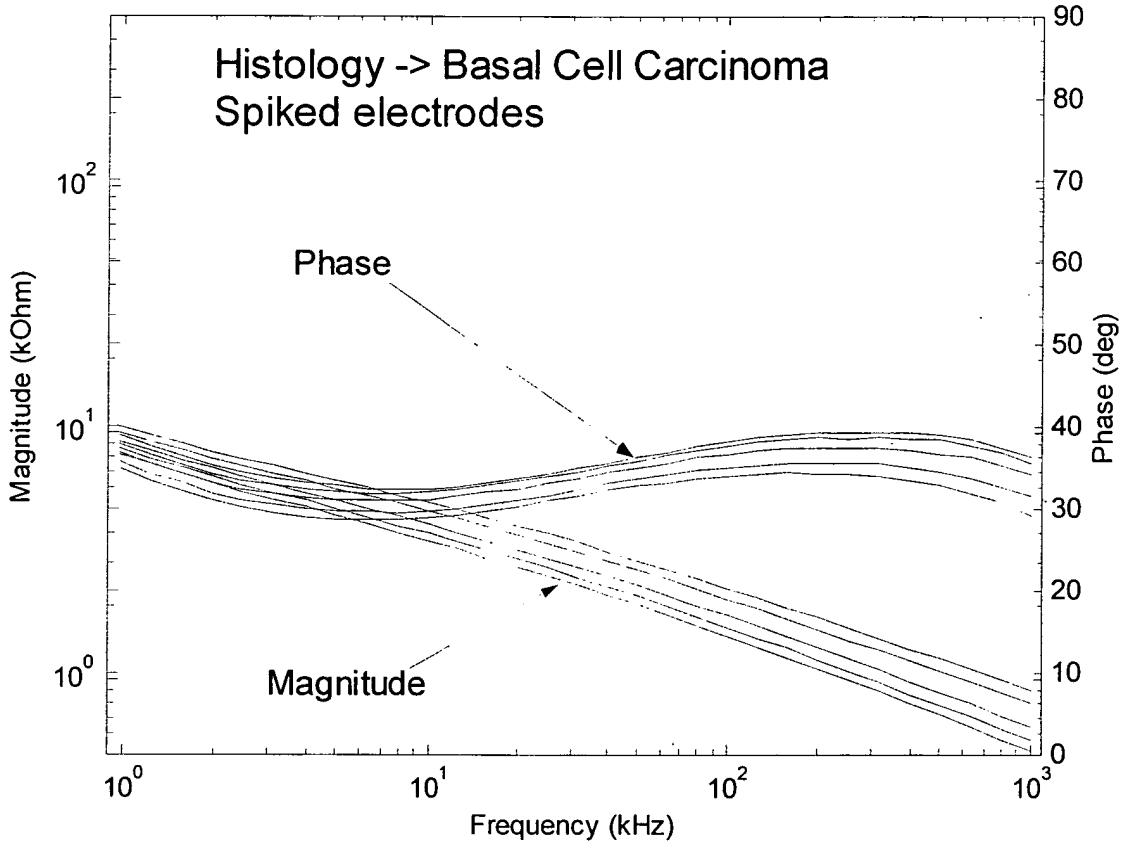

Histology -> Basal Cell Carcinoma
Spiked electrodes
Phase
Magnitude
Magnitude (kOhm)
Phase (deg)
Frequency (kHz)
10^2
10^1
10^0
10^0
10^1
10^2
10^3
90
80
70
60
50
40
30
20
10
0

Figure 8(c)

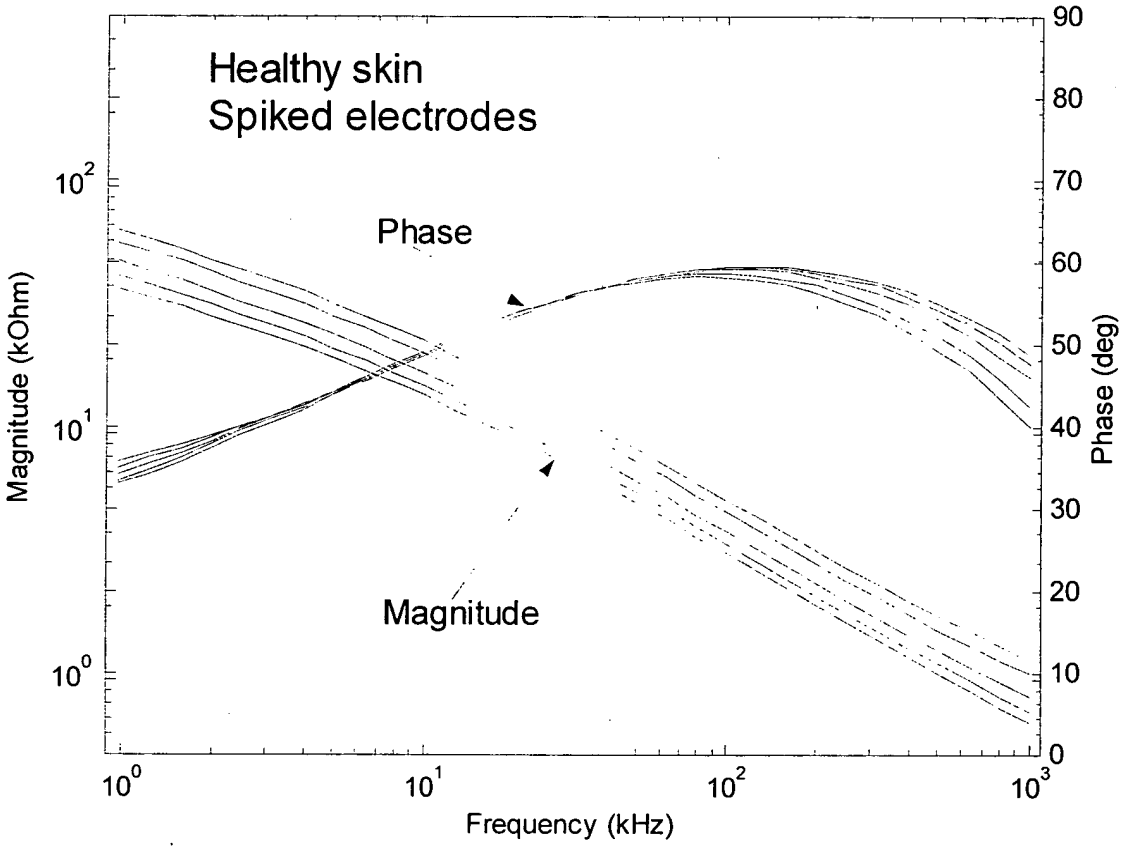
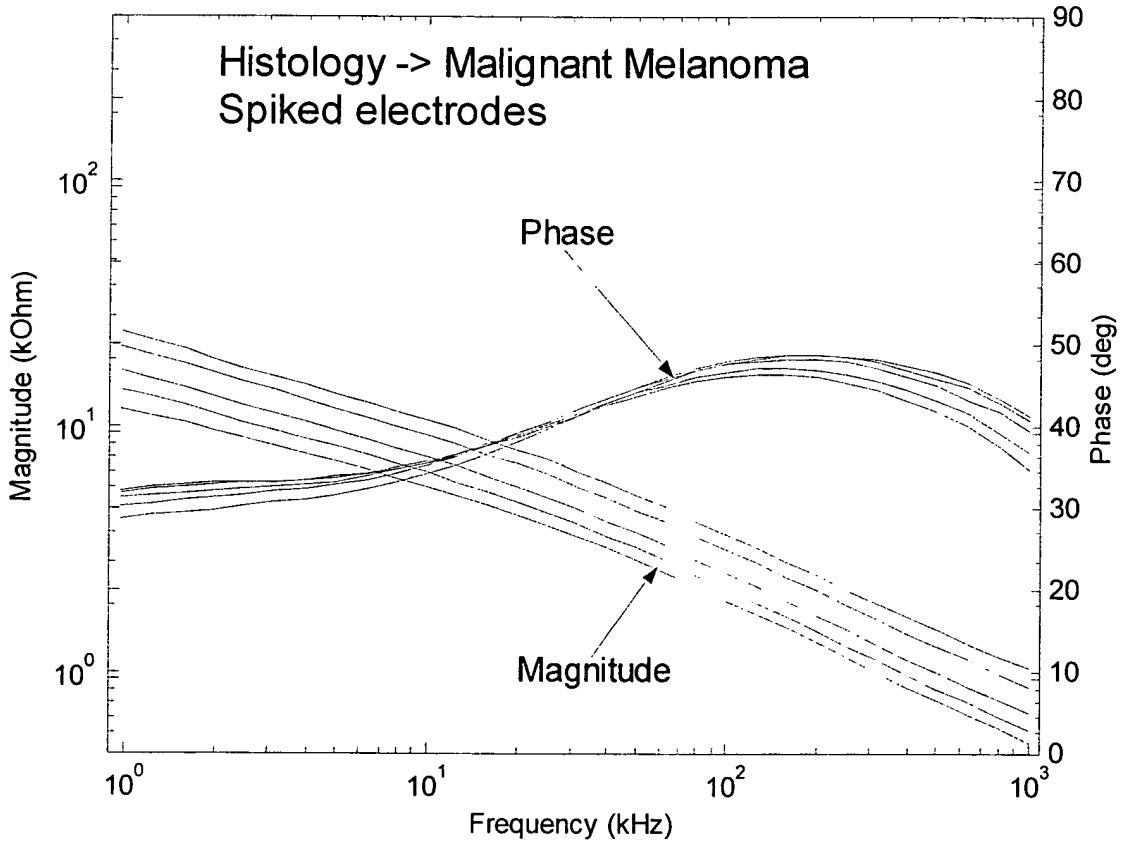

Healthy skin
Spiked electrodes
Phase
Magnitude
Magnitude (kOhm)
Phase (deg)
Frequency (kHz)
10^2
10^1
10^0
10^0
10^1
10^2
10^3
90
80
70
60
50
40
30
20
10
0

Figure 8(d)


Histology -> Malignant Melanoma
Spiked electrodes
Phase
Magnitude
Magnitude (kOhm)
Phase (deg)
Frequency (kHz)
10^2
10^1
10^0
10^0
10^1
10^2
10^3
90
80
70
60
50
40
30
20
10
0

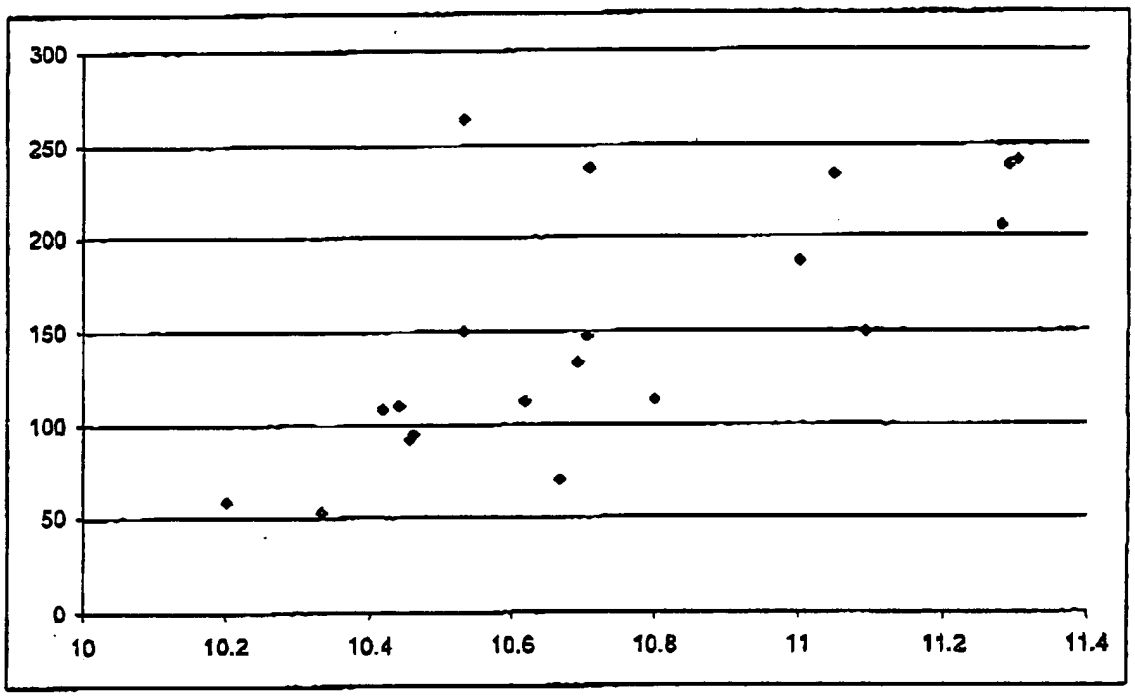



Figure 9